

Claims

1. Intraparietal reinforcement valve (1) that is designed to be integrated into a biological prosthesis (10), characterized by the fact that it is adapted for being placed inside the organic tissue of this biological prosthesis (10) and for reinforcing the structure of the latter so as to keep its shape after implantation.
2. Intraparietal reinforcement device (1) according to the preceding claim, comprising an intraparietal rod (2) that is adapted for being inserted into the organic tissue of biological prosthesis (10) and a leg (3) that is attached to a first end of the rod (2).
3. Intraparietal reinforcement device (1) according to the preceding claim, comprising in addition an attachment (4) that is suitable for being attached to a second end of rod (2).
4. Intraparietal reinforcement device (1) according to one of claims 2 to 3, wherein the intraparietal rod (2) is straight.
5. Intraparietal reinforcement device (1) according to one of claims 2 to 3, wherein the intraparietal rod (2) has a helical shape.
6. Intraparietal reinforcement device (1) according to one of claims 2 to 5, wherein the rod (2) comprises a helical portion (2a) on its surface.
7. Intraparietal reinforcement device (1) according to one of claims 2 to 6, wherein the rod (2) comprises at the second end a pointed portion (2b) that is adapted for piercing and penetrating, without causing damage, the organic tissue of the biological prosthesis (10).

8. Intraparietal reinforcement device (1) according to one of claims 2 to 7,
wherein the leg (3) is made by a straight bar.
9. Intraparietal reinforcement device (1) according to one of claims 2 to 7,
wherein the leg (3) is made by a curved bar, whereby the curvature
corresponds to the curvature of the outside circumference of the biological
prosthesis (10).
10. Intraparietal reinforcement device (1) according to one of claims 3 to 9,
wherein the attachment (4) is made by a curved bar, whereby the curvature
corresponds to the curvature of the outside circumference of the biological
prosthesis (10).
11. Biological prosthesis (10), provided with at least one intraparietal
reinforcement device (1) according to one of the preceding claims.
12. Biological prosthesis (10) according to the preceding claim, including an
animal aortic valve that comprises an intraparietal reinforcement devices (1).
13. Biological prosthesis (10) according to the preceding claim, wherein
intraparietal rod (2) of the intraparietal reinforcement devices (1) is placed
inside tubular outside wall (12) of the valve along the lines of intersection of
this wall (12) with the commissures (13) of the valve.
14. Biological prosthesis (10) according to the preceding claim, wherein the leg
(3) and/or the attachment (4) of the intraparietal reinforcement devices (1)
are/is covered by a Teflon material.